



Gulf of Mexico Harmful Algal Bloom Bulletin

6 June 2005

National Ocean Service

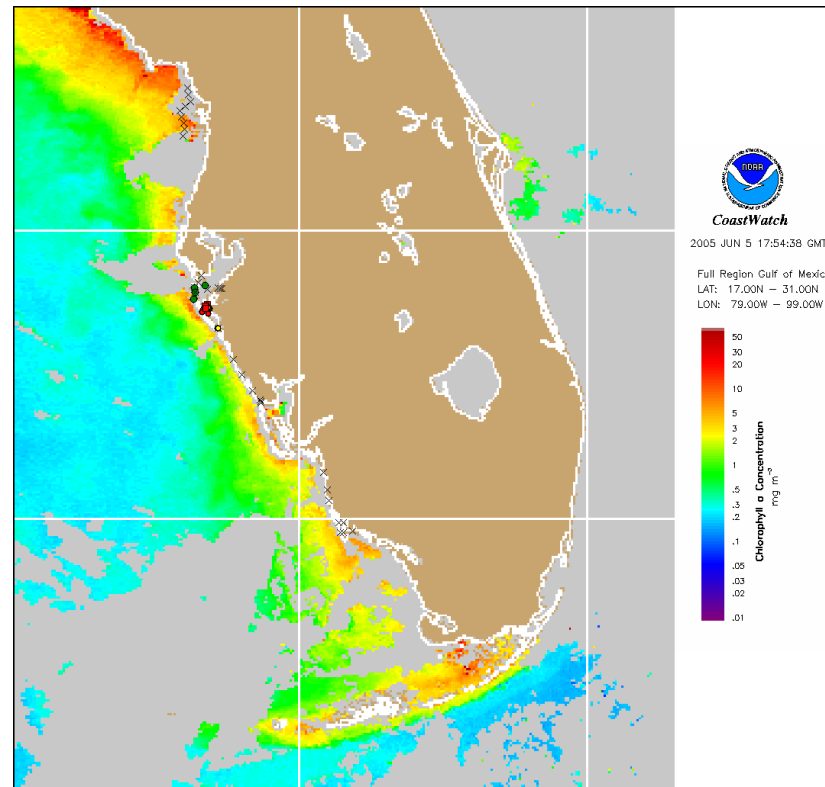
National Environmental Satellite, Data, and Information Service

Last bulletin: June 2, 2005

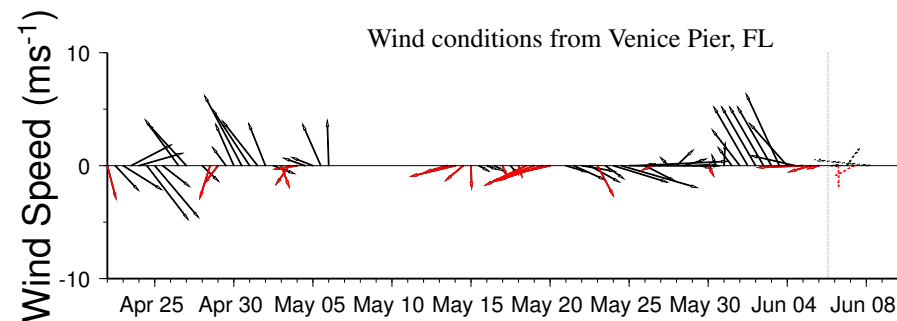
Conditions: A harmful algal bloom has been identified in Manatee and Sarasota counties. Patchy low impacts possible along the coast in the afternoons. Patchy moderate impacts possible in bayside vicinities through Thursday.

Analysis: The bloom persists in patches near the coast and in the bays, and has moved south towards Venice. Chlorophyll levels west of Bradenton, at 27°27'N 82°47'W, were over 10 $\mu\text{g/L}$ on June 5. Chlorophyll levels at 26°39'N 82°20'W, southwest of Boca Grande, were over 6 $\mu\text{g/L}$. Samples from last week indicated low to medium concentrations in Palma Sola Bay and medium to high in Sarasota Bay. Very low to low concentrations along the coast from Mullet Key to Venice. Slight southerly movement along the coast is possible. Satellite imagery indicates elevated chlorophyll south and southwest of Cape Romano. Samples from Lely Barefoot Beach to Marco Island indicate no *Karenia brevis*. Elevated chlorophyll likely due to resuspension and nonharmful algae.

-Keller, Stolz, Bronder



Chlorophyll concentration from satellite with possible HAB areas shown by red polygon(s). Cell concentration sampling data from May 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).

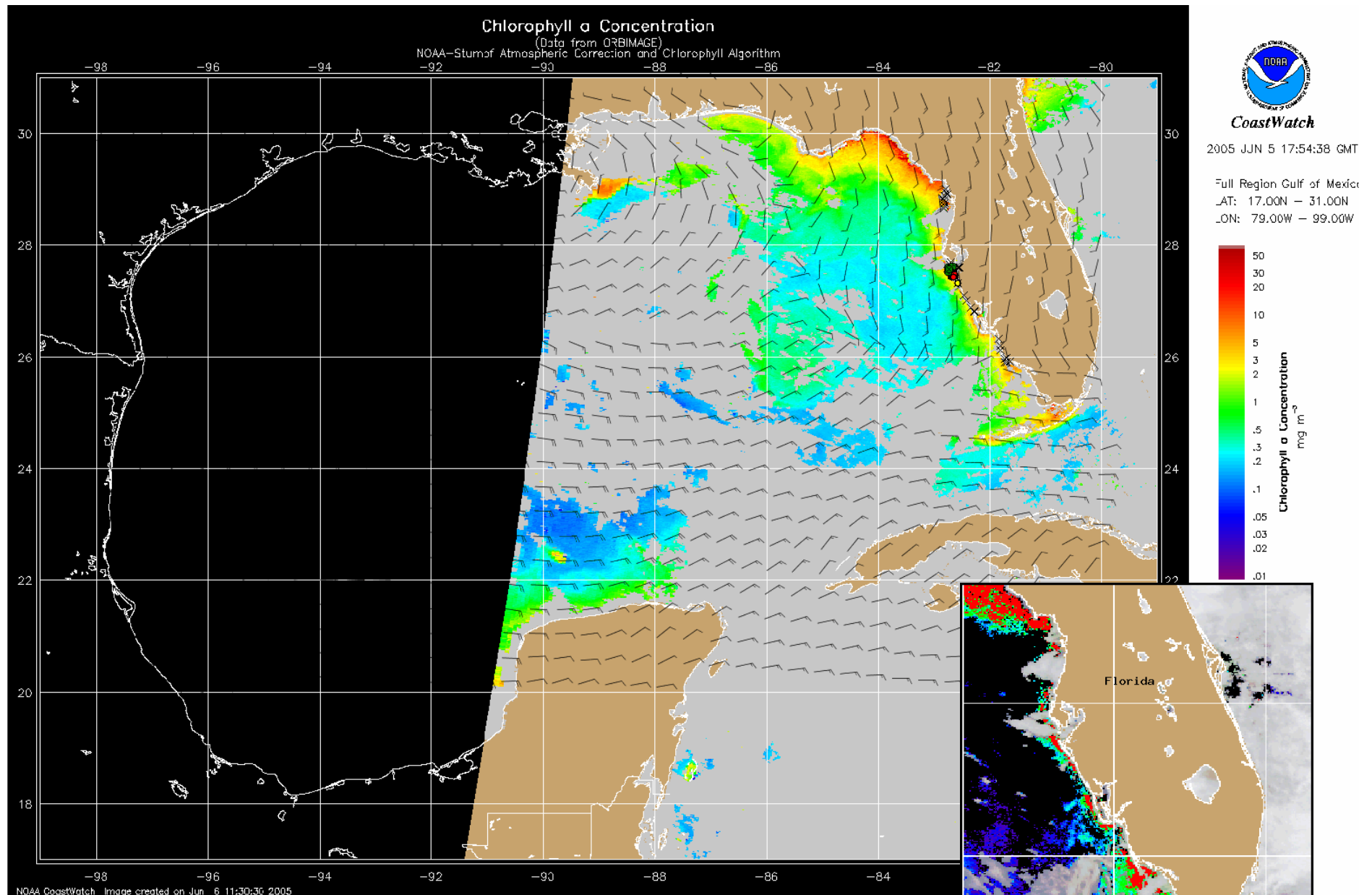


Wind speed and direction are averaged over 12 hours from measurements made on buoys. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

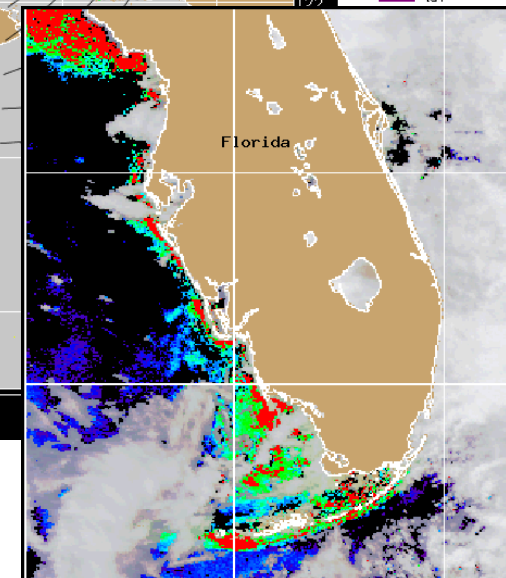
Easterly to northeasterly winds today and tomorrow at 5-10 knots (3-5 m/s) with afternoon seabreeze near the coast. Southeasterly winds Wednesday, with afternoon seabreeze. Easterly winds Thursday at 10-15 knots (5-8 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. These data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Distribution for military, or commercial purposes is NOT permitted.
3. There are restrictions on Internet/Web/public posting of these data.
4. Image products may be published in newspapers. Any other publishing arrangements must receive OrbImage approval via the CoastWatch Program.



Chlorophyll concentration from satellite and forecast winds for June 7, 2005 06Z with cell concentration sampling data from May 15, 2005 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present).



Blooms shown in red (see p. 1 analysis and image for interpretation)

